

Appl. No. 10/687,771
Amdt. dated August 27, 2007
Reply to Office action of August 16, 2007

Amendments to the Claims

This listing of claims will replace all prior versions, all listings, of claims in the application:

Listing of Claims:

5. Claim 1 (Previously Presented): A transceiver of a communication system, comprising:
a front-end receiver for generating a first signal with a pre-cursor component and a post-cursor component according to a receiving signal, wherein the front-end receiver further includes an inverse partial response (IPR) filter to compensate an ISI introduced by a partial response filter in a transmitter part of a remote transceiver and an analog-to-digital (A/D) converter to receive an output signal of the IPR filter and convert the output signal to the first signal with a digital format;
a noise canceller coupled to the front-end receiver for generating a second signal through eliminating the noise of the first signal;
a Feed-Forward Equalizer (FFE) coupled to the noise canceller for generating a third signal through eliminating the pre-cursor component in the second signal according to a transfer function including a plurality of adjustable constants, wherein the adjustable constants includes a main-tap and the value of the main-tap is predetermined; and
a decoder coupled to the FFE for decoding the third signal and eliminating the post-cursor component in the third signal.

10. Claim 2 (Original): The transceiver as claimed in claim 1, wherein the front-end receiver further includes a sample-and-hold circuit to sample and hold the receiving signal.

15. Claim 3 (Previously Presented): The transceiver as claimed in claim 2, wherein the transceiver further includes a timing recovery coupled to the decoder for controlling the sample-and-hold circuit according to an output signal of the decoder.

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Claims 4-7 (Cancelled)

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Claim 4 (Previously Presented): The transceiver as claimed in claim 1, wherein the IPR filter is an infinite impulse response filter.

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